

4-29-03

Sheet 1 of 3

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DCKET NO. XCI- 227

SERIAL NO. 10/646,139

APPLICANT PAUL A. NYSEN

FILING DATE 08/20/03

GROUP

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4 7 3 9 3 2 8	4/19/88	KOELLE ET AL	342/44		7/14/86
VII	4 8 8 8 5 7 1	12/19/89	LANDT ET AL	342/44		10/6/88
VIII	4 0 5 9 8 3 1	11/22/77	EPSTEIN	343/6.8R		10/6/75
IX	4 4 8 4 1 6 0	11/20/84	RIHA	333/19S		3/8/83
X	4 6 0 4 6 2 3	8/5/86	SKEIE	343/6.8R		6/30/83
XI	4 6 0 5 9 2 9	8/12/86	SKEIE	343/6.8R		6/30/83
XII	4 6 2 0 1 9 1	10/28/86	SKEIE	342/51		6/30/83
XIII	4 6 2 3 8 9 0	11/18/86	NYSEN	342/44		6/30/83
XIV	4 6 2 5 2 0 7	11/25/86	SKEIE	342/51		6/30/83
XV	4 6 2 5 2 0 8	11/25/86	SKEIE ET AL	342/51		6/30/83
XVI	4 7 0 3 3 2 7	10/27/87	ROSSETTI ET AL	342/44		10/31/87

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
AL						
AI						
AII						
AIO						
API						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VR						
VS						
VT						

DATE CONSIDERED 8/4/06

4-29-03
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

STATEMENT OF DISCLOSURE
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U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
5019815	5/28/91	LEMELSON ET AL	344	433	3/3/87
4288343	7/8/81	LOUNDERBACK	252	408	3/22/79
4288689	1/3/81	LEMELSON ET AL	235	435	10/12/79
3273146	7/13/66	H. HURWITZ	342	51	8/7/64
5144313	7/1/92	KIRKNES	342	444	4/24/91
3981011	7/14/76	BELL, III	343	65LC	3/31/75
4263595	4/21/81	VOGEL	343	65SS	5/15/79
4143340	3/6/79	HUNSINGER	333	151	9/1/76
4201964	5/6/80	NORO ET AL (333	151	6/20/78
3810257	5/7/74	JONES ET AL	333	30R	2/1/73
4267534	5/12/81	TANSKI	333	153	5/23/80

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL.
2189738	7/17/87	AUSTRALIA	G07C	005/00	YES
661181	1/25/80	AUSTRALIA	G01K	11/22	YES
000043	2/6/90	AUSTRALIA	H04B	1/59	YES
900470	11/3/89	AUSTRALIA	H03H	4/145	YES
089617	3/16/83	GERMANY	H03H	9/1145	YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

GURUK, WILLIAM; OPTICAL PROBING MEASUREMENTS OF SURFACE WAVE
GENERATION AND REFLECTION IN INTERDIGITAL TRANSDUCERS ON
LiNbO₃; 11/80; pp. 341-354
CAMBIAGGIO, EDMOND; SAW REFLECTION FROM CONDUCTING STRIPS
ON LiNbO₃; 9/79; pp. 340-344

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEACTION DISCLOSURE STATEMENT
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DOCUMENT NUMBER		DATE	U.S. PATENT DOCUMENTS			
			NAME	CLASS	SUBCLASS	FILING IF APPR
4307356	12/22/81		ARAI	333/194		7/3/80
4096477	4/20/78		EPSTEIN ET AL	343/6.55		4/22/77
4028649	6/7/77		KOMATSU ET AL	333/72		12/19/75
4263571	4/21/81		KINOSHITA ET AL	333/194		11/15/79
4166258	8/23/79		TSENG	333/195		8/29/74
4410823	10/18/83		MILLER ET AL	310/313D		11/13/81
3845420	10/29/74		HOLLAND ET AL	333/30R		3/2/73
3931597	1/6/76		CHO ET AL	333/30R		2/4/74
1217564	8/12/80		AUTRAN	333/152		9/15/78
3801935	4/2/74		MITCHELL	333/72		7/12/72
1494031	1/15/85		BARNES ET AL	310/313B		3/16/83

DOCUMENT NUMBER		DATE	FOREIGN PATENT DOCUMENTS			
			COUNTRY	CLASS	SUBCLASS	TRANSL. YES NO
1002485	11/13/80		JAPAN	H03H	9/145	
153817	11/22/81		JAPAN	H03H	9/145	✓
122215	9/25/81		JAPAN	H03H	9/145	
400184	10/8/84		AUSTRALIA	H04B	1/59	✓
228911	11/3/87		CANADA	G01S	9/145	✓

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

WILLIAMSON, R.C. REFLECTIVE ARRAY MATCHED FILTER FOR A 16-PULSE
RADAR BURST; pp. 1325-1329

DEVRIES, ADRIAN; REFLECTION OF A SURFACE WAVE FROM THREE
TYPES OF 1D TRANSDUCERS; pp. 280-285

IEEE TRANSACTIONS ON SONICS AND ULTRASONICS; 1/73; Vol.
34-20, No. 1; pp. 42, 187-204

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INFORMATION DISCLOSURE STATEMENT
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U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPA
4912471	3/27/70	TYBURSKI ETAL (PARTIAL)	342/42		11/3/83
4106020	8/8/78	JOHNSON	343/14		7/21/77
4044355	8/23/77	EDVARDSSON	343/14		2/13/76
2817012	12/17/57	H.C. KENDALL	342/42		2/20/52
3878528	4/15/75	MAJEAU	343/6555		10/12/73
3501280	7/21/70	M. JANCO ETAL	342/44		1/16/69
3209350	9/23/65	R.K. DAVIS ETAL	340/2534		6/4/63
4388524	6/14/83	WALTON	235/380		9/16/81
4151525	4/24/79	STRAUCH ET AL	343/65R		6/28/77
4023167	5/10/77	WAHLSTROM	343/6555		6/16/75
3737911	6/5/73	SAKURAGI ETAL	343/6555		8/17/70

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES/NO
2604105	2/3/76	GERMANY	H03H	9/00	✓
2521290	5/13/75	GERMANY	H03H	9/145	✓
3438051	10/17/84	GERMANY	G01S	13/74	✓
1228912	11/3/87	CANADA	G01S	13/80	✓
1413486	12/24/72	AUSTRALIA U.K.	H03B	5/32	✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VR	HAYDL, WILLIAM, SURFACE ACOUSTIC WAVE RESONATORS.
WS	CROSS, PETER S, SURFACE-ACOUSTIC-WAVE RESONATORS
VI	STUCKER, HELMUT, AKUSTISCHE OBERFLACHENWELLEN-BAUELEMENTE. pp. 87-93

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INFORMATION DISCLOSURE STATEMENT
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(Use several sheets if necessary)

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
W	4339153	7/13/82	MAWHINNEY	343/6555		12/19/79
W	4480150	10/30/84	JONES ET AL	174/52FP		7/12/82
W	4644384	2/17/87	CHAROENSACKVIROCHANA	357/74		2/2/84
W	4330790	5/13/82	BURNS	357/70		3/24/80
W	4003073	1/11/77	HELDA ET AL	357/70		10/10/72
W	4234666	11/18/80	GURSKY	428/573		7/26/78
W	4706105	11/10/87	MASUDA ET AL	357/74		6/13/86
W	4672418	6/9/87	MORAN ET AL	357/70		4/8/85
W	4331740	5/25/82	BURNS	428/572		4/14/80
W	3909838	9/30/75	BEYERLEIN	357/70		8/1/73
W	4141712	2/27/79	ROGERS	65/36		7/18/77

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES
W	847910	6/26/85	REPUBLIC OF SOUTH AFRICA	H04B		✓
W	1298381	2/26/69	ENGLAND	H04B	7/00	✓
W	847909	6/2/85	REPUBLIC OF SOUTH AFRICA	H04B		✓
W	2165411	10/9/84	ENGLAND	H03H	9/42	✓
W	2165425	10/9/84	ENGLAND	H03B	23/00	✓

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VI	WILLIAMSON, RICHARD, REFLECTION GRATING FILTERS,
	DEPARTMENT OF THE ARMY, pp. 381-442
W	HOLLAND, MELVIN, PRACTICAL SURFACE ACOUSTIC WAVE
	DEVICES, PROCEEDINGS OF THE IEEE Vol 62, NO 5, 5/74, p 582-611
W	OMNIDIRECTIONAL ANTENNAS, BUTTERWORTH & CO,
	CHAPTER 2, pp 25-33

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	3870994	3/11/75	MCCORMICK ET AL	343/69R		12/22/72
VII	4227701	11/27/81	HENRIQUES	343/651L		8/8/79
VIII	3513470	5/19/70	G. RABOW	342/51		7/7/58
IX	4180815	12/25/79	HILL	343/65R		1/20/78
X	3665486	5/23/72	FASSETT	343/754		1/23/69
XI	4260928	11/7/81	YANAGISAWA ET AL	343/700M		4/4/79
XII	4142339	12/27/83	WOLFSON	333/116		1/30/81
XIII	4242685	12/30/80	SANFORD	343/770		4/27/74
XIV	4241352	12/23/80	ALSPAUGH ET AL	343/700M		9/15/76
XV	4220402	3/16/82	BOWEN	343/700MS		7/7/80
XVI	4589422	5/20/86	JAMES ET AL	128/804		2/3/84

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
EP	0513007	11/13/90	EUROPE	H03H	9/02	✓
GB	2142475	1/16/85	ENGLAND	H04B	1/59	✓
DE	2524571	6/3/75	GERMANY (US 3984835)	H04B	7/15	✓
FR	2165423	10/9/84	ENGLAND (US 4726841)	H04B	1/59	✓
JP	2813753	3/30/78	GERMANY (US 4209783)	G01S	7/56	✓

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VI	KEENAN, ROBERT; PRIVATE FIRM PROFITS FROM ELECTRONIC
	TOLLS; 5/96; WIRELESS SYSTEMS DESIGN; P. 24
VII	TECHNOLOGY A GENERATION AHEAD; AMTECH BROCHURE
	pp 1-8, INSERT
VIII	ALLAN, ROGER; WIRELESS TRANSCIVER WITH MICROMACHINED
	SENSOR DETECTS BOTH TIRE PRESSURE AND TEMPERATURE
	TECHNOLOGY ADVANCES; ELECTRONIC DESIGN; 12/16/96

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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
VI	4554549	11/19/85	FASSETT ET AL	343/700MS		9/19/83
VII	4477813	10/16/84	WEISS	313/700MS		8/11/82
VIII	4110653	8/29/78	HARTEMANN	310/313		3/25/77
IX	4072915	2/7/78	MITCHELL	333/72		9/10/76
X	3869682	3/4/75	HEEKS ET AL	332/11R		4/10/74
XI	4462011	7/24/84	WARD	333/154		12/27/82
XII	3600710	8/17/71	ADLER	333/72		8/12/68
XIII	3936774	2/3/76	MELLON ET AL	333/30R		3/14/74
XIV	4155056	5/15/79	CROSS ET AL	333/195		8/25/77
XV	4434383	2/28/84	CHO ET AL	310/313R		1/10/83
XVI	3898592	8/5/75	SOLIE	333/72		5/8/74

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES
AL						
AN						
AO						
AP						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VI	WALKER, HAROLD; VPSK MODULATION TRANSMITS DIGITAL
VS	AUDIO AT 156/5/HZ; WIRELESS SYSTEMS DESIGN; 12/96; pp 38-42
VI	GROSSMANN, JOHN; THE WIRING OF THE GREEN; INC. TECHNOLOGY
	1996; No 4; pp 55-58
VI	A SPREAD SPECTRUM CHIP FOR RIC APPLICATIONS; MICRON
	COMMUNICATIONS INC; MICROWAVE JOURNAL; 11/96; pp 144-148
	DATE CONSIDERED

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INFORMATION DISCLOSURE STATEMENT
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U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR
100	4 242 671	12/30/80	PLOWS	340/572		12/3/78
101	4 931 664	6/5/90	KNOLL	307/10.3		3/2/88
102	3 961 290	6/1/76	MOORE	333/30R		2/7/75
103	4 699 682	10/13/87	TAKISHIMA	156/292		10/16/86
104	4 625 184	11/25/86	NIITSUMA ET AL	333/150		6/27/83
105	4 422 055	12/20/83	CULLEN ET AL	333/151		10/30/81
106	4 345 342	7/4/89	HERRICK ET AL	310/318		3/24/86
107	4 433 588	6/12/90	GREER	310/313D		12/23/88
108	4 213 104	7/15/80	CULLEN ET AL	333/150		9/25/78
109	4 745 401	5/17/88	MONTEAN	340/572		9/9/85
110	5 027 107	6/25/91	MATSUNO ET AL	340/572		6/27/89

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES
111						
112						
113						
114						
115						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

116	TUTTLE, JOHN. INTEGRATED CIRCUIT SIMPLIFIES DESIGN OF RFID SYSTEMS. MICROWAVES + RF. 10/96. pp 103-109
117	GUO, YANPENG. IF TRANSCEIVER SERVES DIGITAL CELLULAR/PCS. MICROWAVES + RF. 10/96. pp 77-84
118	ROBINSON, GAIL. IMPULSE RADAR MICROPOWERED FOR SENSOR APPS. EET. 1/20/97. pp 33 & 36

DATE CONSIDERED

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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U.S. PATENT DOCUMENTS												
DOCUMENT NUMBER					DATE	NAME	CLASS	SUBCLASS	FILING			
3	0	2	5	5	24	3/13/62	C.H. THIES	343/823		5/6/59		
3	8	4	5	4	90	10/29/74	MANWARREN ETAL	343/821		5/3/73		
4	1	3	8	6	81	7/4/79	DAVIDSON ETAL	343/702		8/29/77		
3	6	8	4	9	29	9/5/72	MOODY	343/802		11/23/70		
4	8	0	0	3	92	1/24/89	GARAY ETAL	343/700		1/8/87		
4	6	4	2	6	46	2/10/87	WOOLSEY ETAL	342/42		4/25/83		
4	2	5	9	6	73	3/31/81	GURETZKY	343/825		6/5/79		
4	4	0	0	1	02	8/23/83	TANAKA	343/790		4/13/81		
5	6	5	4	6	93	8/5/97	COCITA	340/572		4/10/96		
4	7	8	2	3	45	11/1/88	LANDT	343/727		7/29/86		
5	0	3	0	8	07	7/9/91	LANDT ETAL	235/375		1/16/90		

FOREIGN PATENT DOCUMENTS												
DOCUMENT NUMBER					DATE	COUNTRY	CLASS	SUBCLASS	TRANSL.			
									YES			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SCHREIER, PAUL, TECHNOLOGY REGS DICTATE MULTIPLE DECISIONS
FOR WIRELESS LINKS; PERSONAL ENGINEERING, 2/97, pp 29-39

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